

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/04267

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B19/26 G11B19/247 G11B7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 561 644 A (KONDO MASAMICHI) 1 October 1996 (1996-10-01) cited in the application the whole document ---	1,10
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 412 (P-1780), 2 August 1994 (1994-08-02) & JP 06 119710 A (HITACHI LTD), 28 April 1994 (1994-04-28) abstract ---	1,10
A	US 6 172 946 B1 (FURUKAWA SHIGEAKI ET AL) 9 January 2001 (2001-01-09) -----	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

10 December 2003

Date of mailing of the international search report

17/12/2003

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			KR	175655 B1	15-04-1999
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			KR	234961 B1	15-12-1999
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